

The power and culture of oil

Killam professor tries to 'make strange' our addiction to oil to ignite important conversations

The non-sporting side of Sochi

Like it usually does, politics goes for gold at the Olympics

At the crossroads of art and dino bones

Paleontology and painting meet in new exhibits

U of A prof heads for Sochi as chief physician for Team Canada

Geoff McMaster

Once you've been to the Olympics, the flame never dies. At least that's how Connie Lebrun—chief physician for the Olympic team and professor of family medicine at the University of Alberta—sees it.



Connie Lebrun

Regardless of your role, whether athlete or support staff, nothing beats working in a fast-paced, high-performance environment where everyone is reaching for gold, says Lebrun, who is also a consultant sports medicine physician at the Glen Sather Sports Medicine Clinic.

"People at the Olympics are trying their very best to be their best, and we are as well," she said while waiting for the plane to Sochi, where she was to begin unpacking crates of medical supplies upon arrival.

Lebrun's Olympic journey began when she played for the Canadian women's volleyball team at the Montreal Summer Games in 1976, and her first foray on the Olympic medical team came in 1996 in Atlanta. But she's been part of the Canadian medical team at numerous international sporting events over the past 25 years, including three Summer Olympics in Sydney (2000), Athens (2004) and Beijing (2008), where she was assistant chief medical officer.

She was assigned to the women's snowboarding team at the Winter Games in Torino and again in Vancouver, where she saw plenty of action—and injuries—in the high-risk snowboard cross event.

This time around in Sochi, Lebrun will lead 10 core team physicians, complemented by more than 50 other health-care practitioners including nutritionists, exercise physiologists and mental performance consultants. The team will respond to everything from acute injuries to illness among the 217 athletes and roughly 150 support staff and mission team members in the Olympic Village.

"A lot of athletes come to the games with overuse injuries, as

Continued on page 3

Happy feet



Varsity Field was transformed into a frozen oasis as Recreation Services hosted its third annual pond hockey tournament Jan. 31–Feb. 2. For more see The Back Page.

Clare Drake named to Order of Hockey in Canada

Matt Gutsch

Legendary University of Alberta hockey coach Clare Drake was named to the Order of Hockey in Canada for his outstanding contributions to the sport of hockey Jan. 29.

Drake, along with fellow 2014 inductees France St-Louis and Steve Yzerman,



Clare Drake

will be celebrated at the Hockey Canada Foundation Celebrity Classic June 23–24 in Vancouver. They join such hockey luminaries as Wayne Gretzky, Gordie Howe, Cassie Campbell-Pascall, Mark Messier, Dave King and Paul Henderson.

It is the second national honour bestowed upon Drake in as many years. In 2013, he was appointed a member of the Order of Canada.

The longtime Edmonton resident has coached hockey at various levels in Canada, including with the Edmonton Oilers when the team was part of the Western Hockey Association, and with the Canadian national team. Drake has influenced countless coaches, players and modern coaching disciplines at all levels of the sport. He is most renowned for having coached U of A Golden Bears hockey, the most successful men's university hockey program in Canada. As the Bears' bench boss for 28 years (1958–1975, 1976–79, 1980–1983 and 1984–1989), "Coach" Clare Drake recorded 697 wins, which still stands as a Canadian

university record, against 296 losses and 37 ties, for a .695 winning percentage.

He won six national championships as coach of the Bears hockey program and earned a national championship trophy in 1967 as head coach of the U of A football program. In fact, Drake won two championships that season as his hockey team won the Canadian university title in the winter following the football team's victory. He also won a championship as a player with the U of A in 1954.

He twice was honoured as Canadian university coach of the year, and he won the Canada West conference coach of the year award four times. On top of the six national championships, Drake also guided the Bears to 17 Canada West championships. He also served as the co-coach of Canada's 1980 Olympic hockey team and guided Canada's teams to gold at the Winter Universiade and a Spengler Cup tournament.

His list of coaching awards also includes the 3M Gordon Jukes Award from Hockey Canada and the Geoff Gowan Award from the Coaching Association of Canada. He has received an honorary doctor of laws degree from the U of A, as well as the U of A's Distinguished Alumni Award, the Alberta Centennial Medal and the Alberta Order of Excellence. He is a member of the U of A, UBC, Edmonton, Alberta and Canadian sports halls of fame and is a honorary member-for-life of the Alberta Football Coaches Association.

The list of prominent Canadian hockey people that Drake has influenced includes NHL Stanley Cup championship coaches and Canadian Olympic gold medalist coaches Mike Babcock and Ken Hitchcock, as well as Hockey

Hall of Fame member and six-time Stanley Cup champion Glenn Anderson.



Clare Drake was named to the Order of Hockey in Canada for his outstanding contributions to the game.

Upon Drake's retirement in 1989, the U of A dedicated Varsity Arena in his honour and renamed it Clare Drake Arena in 1990.

Drake was also a gifted educator who for many years was a professor in the U of A's Faculty of Physical Education and Recreation. He wrote numerous research articles on the technical aspects of hockey, lent his expertise to a variety of educational hockey films and videos, and provided enlightened leadership to Hockey Canada's coach education initiatives. His writings formed the basis of hockey's first national coaching certification program, and he has supported its delivery through innumerable clinics and conferences at home and throughout North America, Europe, Asia and Australia. He is also a developer of the National Coach Mentorship Program, a committed mentor and a hands-on university coach, often referred to as the "dean" of Canadian intercollegiate hockey coaches. ■

folio

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Killam professor helps clear the fog around oil culture

Geoff McMaster

For many of us, it's an unremarkable moment in our weekly routine: we stick a nozzle into the side of a vehicle and pump gasoline, sometimes while simultaneously checking our cellphones.

Imagine what that image would look like to someone from, say, the 19th century. In all likelihood, bizarre and inexplicable.

It's that attempt to defamiliarize, see afresh or "make strange" that cultural studies often uses to more closely examine common practices and attitudes in society, separating what we all take for granted from the conceptual traps that blind us to reality.

The ubiquitous gas-guzzling consumer is of particular interest to Imre Szeman, Canada Research Chair in Cultural Studies in the U of A's Department of English and Film Studies. His focus lately has been on the cultural politics of oil—or petrocultures—especially those aspects of our relationship with fossil fuels we find difficult or uncomfortable talking about.

"We've given ourselves over and come to depend on a substance that we take as completely normal and natural," says Szeman. "I'm looking at the various ways we frame oil specifically as a substance in our lives, and how it governs modernity."

While the objects of cultural studies are limitless—from literature and film to music and media to posters and graffiti—the aim of the discipline boils down to one thing, says Szeman: examining the relationship between culture and power, especially how much of what we believe serves the interests of power.

“As an academic, how do you really and truly bring to bear the knowledge we now widely know about climate change and addiction to oil to publics in such a way they begin to act on things?”

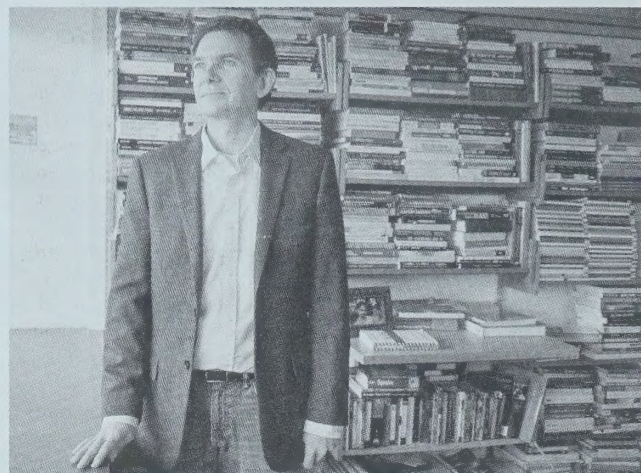
Imre Szeman

"As an historian of ideas and a philosopher, I'm really interested in the way in which concepts, which are complete inventions and don't exist in the world—things like freedom, mobility, equality—really are the objects around which we structure our activities. They become the ideas we fight over.

"I'm interested in taking apart some of those to see how they operate, what they make us do and what they make us unable to do.... The role of the academic is to push things as far as possible and call things to account."

For his many contributions to cultural studies, most recently helping to develop an emerging "energy humanities," Szeman was awarded a 2013-14 Killam Annual Professorship, an award that recognizes exceptional teaching, research and community service. He's also been awarded \$150,000 over three years from the Social Sciences and Humanities Research Council to advance After Oil: the Future Cultures Project.

One planned outcome of the project is a pair of books—his own, called *Petrofictions*, and a collection of essays and other "narrative interventions" he's co-editing called *Fueling Culture: Energy, History, Politics*.



Imre Szeman, Canada Research Chair in Cultural Studies and Killam Annual Professor, has turned his focus to petrocultures.

Szeman's research involves looking at three major oil crises of the past 40 years: the OPEC oil embargo of 1973, the Exxon Valdez oil spill in Alaska in 1989, and the BP oil spill in the Gulf of Mexico in 2010. Most remarkable in all three cases, argues Szeman, was how prominently our self-destructive dependence on oil figured in the media for a brief moment, after which it was quickly forgotten.

Take a look at the BP spill, for example. "People were very alarmed, and there was much talk of consequences and vastly improved regulation," he says. "Now it has disappeared from view entirely. There continues to be a lot of discussion about oil, but there's never any reference to that, as if it's gone."

Partly to revive that discussion, and others around our addiction to oil, Szeman has initiated a U of A cluster of researchers called Petrocultures. In 2012 he teamed up with Sheena Wilson of Campus Saint-Jean to stage a four-day conference on the subject, attracting researchers from a variety of disciplines who took a trip to Fort McMurray as part of their deliberations. A follow-up conference takes place this month at McGill University.

The goal in all of this is to create a wide-ranging and inclusive dialogue over six years, says Szeman. In the latter years, he hopes to hold a global, yearlong series of events to share insights. As Szeman sees it, our dependency on fossil fuels has brought us to an impasse, and we need to move past our denial and take a clear, hard look at what oil means to our future.

"Part of it is simply acknowledging that we can, and do, have social addictions," he says. "We need to be clear about how we deal with those. As an academic, how do you really and truly bring to bear the knowledge we now widely know about climate change and addiction to oil to publics in such a way they begin to act on things?" ■

President honoured by National Academy of Engineering

News Staff

University of Alberta President Indira Samarasekera has joined some elite company after being elected as a foreign associate of the National Academy of Engineering.

Election to the United States-based organization is among the top professional distinctions available to engineers. Membership honours those who have made "outstanding contributions to engineering research, practice or education," and who have pioneered new and developing fields of technology that advance engineering and education.

"I am deeply honoured and truly humbled that an esteemed organization such as the National Academy of Engineering would recognize my work with such a rare distinction," said Samarasekera, internationally renowned as one of Canada's leading metallurgical engineers.

"As much as this honour comes with great personal and professional satisfaction, no important endeavour is accomplished in a vacuum. Throughout my career I have had the fortune to work and learn alongside some remarkable individuals, and that includes some truly great talent at the U of A, without whom this would not have been possible."

Samarasekera is one of only 29 Canadians who have been elected to the NAE since it was founded in 1964. The honour recognizes

Samarasekera's work to advance the mechanistic understanding of steel casting processes for improved productivity.

Her induction into the NAE is the latest accolade in a career that includes a Fulbright-Hays Scholarship as a master's student at the University of California, the E.W.R. Steacie Memorial fellowship in 1991—awarded by the Natural Sciences and Engineering Research Council of Canada to the top four researchers under 40—and an appointment as an officer of the Order of Canada in 2002. Most recently, she received a Queen Elizabeth II Diamond Jubilee Medal in 2012.

After earning her master's in science in 1976, Samarasekera went on to the University of British Columbia, where in 1980 she completed a PhD in metallurgical engineering and later entered the professoriate. While at UBC she held the Dofasco Chair in Advanced Steel Processing and also served as vice-president of research.

Samarasekera came to the U of A in 2005, becoming the institution's 12th president and vice-chancellor.



President Indira Samarasekera

Other U of A professors who have received the honour include George Govier (inducted in 1979), a former professor and dean of engineering, and former chair of the Chemical and Petroleum Engineering Department; Norbert Morgenstern (1992), distinguished university professor emeritus in civil and environmental engineering; professor emeritus S.M. Farouq Ali (2009) and professor emeritus Jacob Masliyah (2011).

Joining Samarasekera among this year's inductees is U of A alumnus Lubomyr Romankiw, who was recognized for his innovation of thin-film magnetic head structures and electrochemical process technologies for microelectronics device fabrication.

Romankiw graduated from the U of A in 1955 with a degree in chemical engineering. He went on to a long and distinguished career at IBM's T.J. Watson Research Center in Yorktown Heights, New York, where his innovations and co-invention with IBM colleague David Thompson revolutionized computer memory.

In 2012, Romankiw received the U of A's Distinguished Alumni Award, recognizing his outstanding accomplishments and international prominence in chemical engineering.

Other U of A alumni elected into the NAE include Joseph Charyk (Eng Physics '42), David Markle (Eng Physics '58), Anatol Roshko (Eng Physics '45) and T.W. Fraser Russell (Chem Eng '58). ■

Sochi Games offers perfect 'teachable moment' on gay rights

Geoff McMaster

Last August Kris Wells called for a boycott of the Sochi Olympics. The outspoken gay-rights advocate and director of programs and services at the University of Alberta's Institute for Sexual Minority Studies and Services was outraged, as were many, by anti-gay legislation passed by the Russian government that outlawed pro-gay "propaganda."

The Olympics, argued Wells in an *Edmonton Journal* editorial, belong to the world's people and should therefore be a forum for the international community to "denounce the horrific conditions of oppression in Russia and, in turn, demand global justice."

But the idea of a boycott, for the most part, has not taken flight. Many have instead decided to exploit the occasion to put gay rights

front and centre on the world stage. U.S. President Barack Obama will not attend the Games, for example, but the American delegation will include high-profile gay athletes, including former figure skater Brian Boitano and hockey player Caitlin Cahow. In Germany, gay activists organized a global "kiss off" staged at Russian embassies in more than 50 cities last September to protest anti-gay laws.

There is also now mounting pressure on gay athletes at the Games to stage some kind of protest, and on big sponsors like Coca-Cola and McDonald's to speak out against Russia's anti-gay propaganda laws.

Given all of these developments, the Olympics are now shaping up to be a fruitful "teachable moment," says Wells, to help young people understand the state of gay rights at home and around the world. Wells is, after all, an education professor

and co-founder of Camp Fyrefly, Canada's only national leadership retreat for sexual and gender minority youth. So he'll be carefully watching what happens at Sochi—on and off the ice and snow.

"I think that's already a sign of how far we've come, the fact that this is an issue and it's one that isn't going away."

Kris Wells

"Ultimately it's going to be up to the athletes," he says, "and we're already seeing momentum from athletes who are planning their own forms of expression and statement. It will be interesting to see if we have a comparison to what



Kris Wells

happened in Germany, and if some athletes defy the propaganda ban and unfurl a rainbow flag and make their own statements.

"Bottom line is we've never seen LGBT rights take international centre stage like they have with the Sochi games. I think that's already a sign of how far we've come, the fact that this is an issue and it's one that isn't going away."

One way to track homophobic attitudes during the Olympics,

he points out, is to follow Nohomophobes.com, a website he helped develop that shows tweets with homophobic language in real time. "It's a great way to follow the conversation," he says.

Wells' biggest concern, however, as with many live events that capture the media spotlight, is that the conversation stops with the closing ceremonies.

"What happens to LGBT people in Russia when the world isn't watching?" he says. "A global spotlight on LGBT issues as human rights issues is unprecedented in human history."

"We need to continue to have a deep conversation about this when the Games are over, and we need to be reaching out and supporting LGBT Russians who live there. Many are fleeing the country, and we need to keep up the pressure."

Dispelling the myth of a non-political Olympics

Geoff McMaster

The Olympics are mired in myth. They always have been. From the very inception of the Games, notions of nationalism and what athletes represent have been inseparable from physical, social and political ideals.

Stacy Lorenz of Augustana Campus is one of many U of A academics who will be watching what happens at Sochi closely, especially where myth collides with reality. The physical education professor teaches a course on the modern Olympics and is interested in a host of issues related to sports, media and popular culture.

For him, the most problematic Olympic myth is that the Games are non-political, that they're meant to be a pure sporting event, during which all of our messy differences are cast aside in the name of global community.

It's a noble aspiration, he says, but it almost always falls short of that ideal. The most dramatic example is the 1936 Summer Olympics in Berlin, he says. "Nazi Germany hosted the games and really elevated the Games as a propaganda tool for nation-building within their own country, and for generating the image they wanted to portray to the external world."

But acknowledging the role of politics in any human endeavour does not have to be so self-serving, and Lorenz argues the International Olympic Committee (IOC) misses golden opportunities to make a difference by stubbornly burying its apolitical head in the sand.

"There could be an opportunity to leverage the power of the Olympics to make positive change more frequently," says Lorenz, pointing to South Africa, which was boycotted from international sporting events between 1964 and 1988 to protest apartheid.

One striking example of political protest was the 1968 Summer Olympics in Mexico City, when medal winners Tommie Smith and John Carlos raised their gloved fists on the podium to call attention to the plight of African-Americans. "The IOC and the U.S. Olympic Committee really reacted harshly to that," says Lorenz. "But in hindsight, most people see that as heroic and brave."

"There could be an opportunity to leverage the power of the Olympics to make positive change more frequently."

Stacy Lorenz

"That's part of what makes the Games important and initiates change—when they do become political," Lorenz says he wishes the IOC would be more assertive, especially on gay rights, given the widespread condemnation of Russia's anti-gay laws: "The IOC charter speaks to equality, including no discrimination on the basis of sexual orientation."

He adds, however, that the IOC ironically uses politics for its own purposes, but shies away from it when not controlling the agenda.

"In Beijing, they had explicitly political reasons for going there—trying to open up China a bit more and perhaps encourage some human rights reform, and there's nothing wrong with that. But when it becomes complicated, then suddenly the IOC wants to remove that political edge or suggest, 'No, this isn't about politics.'"

Another myth of the Olympics concerns the idea of legacy, says Lorenz. Bidding countries have to demonstrate that facilities left behind when the Olympics are over will tangibly benefit people living in the host country. But holding host countries to account is not always as effective as it could be.

"Around these games there are clear connections to the nature of politics and links of corruption between big business and the upper levels of the government. Clearly that's how the Games have been funded and how construction has taken place there," says Lorenz.

Then there's the question of the Olympic athlete as physical ideal—also a myth, says Lorenz. As he often tells his students, "High-performance sport is not remotely healthy—it's not good for your body. It's actually semi-pathological. We see all the glory, but there's a high price paid by athletes that I'd like to see more light cast on."

Grant fosters innovation through high-tech research partnership

Richard Cairney

Three U of A engineering professors are teaming up with a Canadian high-tech startup company to develop intelligent algorithms that help ensure that integrated circuit designs will produce working chips in the most advanced semiconductor technologies.

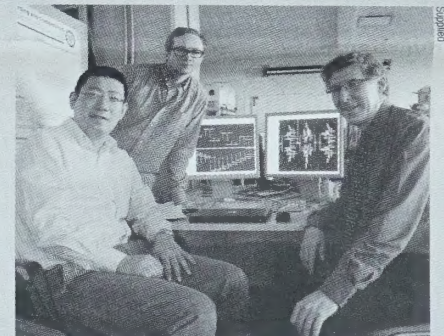
Electrical and computer engineering professors Jie Han, Bruce Cockburn and Witold Pedrycz, and industry partner Solido Design Automation, are developing algorithms that guide the verification of integrated circuit operation under different process parameters and possible operating conditions.

The team was recently awarded a \$300,000 Strategic Project Grant from the Natural Sciences and Engineering Research Council of Canada to address challenges in manufacturing integrated circuits.

Han emphasizes that this is a team project that crosses engineering disciplines.

"I could not do this work on my own," he said, adding that the involvement of his colleagues is essential to winning the NSERC grant and achieving the project's technical goals.

Han says Cockburn is "very knowledgeable in a broad category of research areas and is certainly a leading expert on the design of test circuitry," and notes that Pedrycz, a highly recognized scholar who holds the Canada Research Chair in Computational Intelligence, is "a world-class researcher on intelligent algorithms whose participation is instrumental in our success."



Computer engineering professors Jie Han and Bruce Cockburn with (middle) computer engineering graduate student Michael Shoniker.

Chief doctor answers call of Olympics

"Once you've been to the Olympics, I guess it's always a passion."

Connie Lebrun

you'd expect, but there's also infectious diseases and so on that you don't always think about," she said. "We tried to get everyone vaccinated against the flu so they don't get H1N1, and we did the same thing with measles."

"We also had everyone take Dukoral against travellers' diarrhea, because that part of the world is considered a moderate risk."

As a professor in the U of A's Department of Family Medicine, Lebrun spends much of her time researching the female varsity athlete, most recently gauging how to predict which athletes are most susceptible to concussion and which are likely to have prolonged injuries. She's also published on the effects of reproductive hormones on sports performance.

But every four years, she puts all that aside to answer the call of the Games.

"Once you've been to the Olympics, I guess it's always a passion," she says. "I understand what the athletes go through in terms of training and dedication to their sport. And I've seen a lot of the people I competed with become coaches or high-performance managers, so you've got an automatic bond."

Continued from page 1



Connie Lebrun stands before the Olympic rings in Sochi, Russia.

St. Joseph's breaks new ground for women living on campus

Bev Betkowski

Emily Hoven will have graduated from the University of Alberta when the doors open in 2015 on a new women's residence for St. Joseph's College, but she knows students to come will enjoy their new home on campus.

Currently living in Kateri House, a string of stairwell apartments in HUB Mall that serve as the college's 14-person all-female residence, Hoven, her twin sister and a handful of other women have made friends and made do in their surroundings, but a groundbreaking held Jan. 29 to welcome construction of a new 282-person building has them celebrating.

Gone will be the friendly but cramped potluck dinners spread out in a bedroom, followed by outings for frozen yogurt or some dancing. Instead, roomy common areas in the seven-storey building will give future generations of female students a more comfortable place to build friendships and campus memories.

"It will be nice for them to have a new building," said Hoven, a third-year student in the Faculty of Arts who serves as president of the residence. "The way HUB is set up, all the bedrooms are in a stairwell, which isn't really



Artist's rendering of the new women's residence for St. Joseph's College, which will open in 2015.

conducive to gathering together," she said. "We make it work, but it's a challenge. The new residence opens the doors to so many more students, so it will be a place for lots of friendships."

The new residence is being built by St. Joseph's Catholic College, affiliated with the U of A since 1926, and opens up more housing on campus, said Don Hickey, vice-president of facilities and operations.

Located just south of St. Joseph's College on the U of A's north campus, the \$35-million facility will house 282 female students of all faith backgrounds, with 24 single

suites, 45 double suites and 39 four-bedroom units, along with common spaces and multi-purpose rooms.

"We are pleased to partner with St. Joseph's College in such a beneficial project for University of Alberta students," Hickey said. "This new building, in addition to enriching the campus experience for resident students, helps meet the university's vision of providing on-site housing for 25 per cent of its full-time students."

The new facility complements St. Joseph's 64-space men's residence and furthers the college's meaningful role on campus, said Rev. Terence Kersch.

"We are excited to launch construction of this project, which offers a unique learning and living environment and enhances the values of social justice, service and friendship that St. Joseph's College has represented for 87 years on campus and shares in common with the University of Alberta," said Kersch, president of the college.

"As the new building takes shape, we look forward to having this residential community play a meaningful role in the personal, academic and spiritual growth of students," he added.

The residence will house female U of A students of Catholic faith, some of whom

are taking courses at St. Joseph's College, and students of all other faith backgrounds.

Having grown up with three sisters—including a younger one who may attend the U of A and take up residence in the new building—Hoven says she likes sharing her space with other young women.

"The new residence opens the doors to so many more students, so it will be a place for lots of friendships."

Emily Hoven

"To come to a similar living situation made the transition to university easier for me. I had a support system. When you first come to university and start thinking about new concepts, it's nice to put those ideas into the context of your faith and to talk to other people about these questions."

The new residence, with room for many more female students, "enhances the presence of women in the college and campus community," she added. ■

Client focus helps small staff make generous impact at TTC

Michael Brown

It's a small group, but from all accounts the team at the University of Alberta's Technology Training Centre (TTC) personifies Aristotle's idiom, "The whole is greater than the sum of its parts."

"We are a small unit and my staff often blur the lines when it comes to specific roles," said technology training officer Kevin Moffitt, who oversees the TTC's daily operations. "Instructors will help admin staff at the start of the day, admin staff help IT when there are issues in the lab and IT staff help everyone get everything to the right place on time."

"We are all invested in seeing the TTC succeed in our mission to provide computer application training with amazing customer service. My staff are the reason we are held in high regard throughout the province."

Moffitt's staff and the success of the centre are also large parts of the reason he was chosen as the university's 2013 Annual APO Recognition Award winner.

Moffitt, who began his time at the U of A in 1996 as a lead computer application instructor in the Academic Support Centre, was part of the team that started TTC as a pilot project 16 years ago to offer computer application training and support

for faculty, staff, students and the public.

On a standard day, Moffitt says, TTC runs between three and eight sessions in everything from Google Apps and Microsoft applications like Office, Project and SharePoint to Sitecore, web design software and Adobe Creative Suite, to name a few.

Moffitt is responsible for ensuring instructors are scheduled, labs are prepared, manuals are printed, confirmations and payments for each attendee are up to date, certificates are printed and daily evaluations are done.

Although heading up this unit that has become an integral part of the university is quite rewarding, Moffitt says his favourite part of the job is taking part in the instructing and learning cycle.

"The instruction side of my job is constantly evolving as I learn a variety of things, ranging from new software that clients are interested in to the constant changes in each new version of applications people use every day," he said. "I sit in on other instructors' courses regularly to evaluate them, but also to learn from them. The TTC staff believe strongly in peer support and sharing knowledge and techniques to help make each other better instructors."

TTC is a cost recovery unit, with all funds generated from the training the unit provides. Its reputation for excellent training and client support has helped the group to retain existing clients

staff spotlight

and build new client relationships. For instance, the centre's biggest client outside the U of A is the Government of Alberta.

"We try to find a fit for each person and, if they have specific needs, can offer one-on-one training. The TTC continues to grow because of the excellent services and extra support we provide," he said. "We have public offerings that anyone can attend, but more than 75 per cent of our business is customized training for corporate clients."

"The TTC staff believe strongly in peer support and sharing knowledge and techniques to help make each other better instructors."

Kevin Moffitt

In the end, Moffitt traces the success he and his group have had in growing TTC back to their client focus and relationship-building.

"I truly love my job," he said. "I get to work with some amazing and gifted individuals who excel at their jobs. I feel exulted seeing a client's reaction when they learn a new skill that is going to save them valuable time each day. And watching them have that 'aha' moment when they realize there are faster and more productive ways to do what is sometimes tedious work is so rewarding." ■

Faculty of Nursing first outside U.S. to secure the 'gold standard'

Yolanda Poffenroth

The Faculty of Nursing has become the first school outside of the United States to join the National Hartford Centers of Gerontological Nursing Excellence (NHCGNE), considered to be the gold standard in gerontological nursing.

"We look forward to joining a group of elite American universities to enhance care of older adults," said Anita Molzahn, dean of nursing.

The mission of the NHCGNE is to enhance and sustain the capacity and competency of nurses to provide quality care to older adults through developing faculty, advancing gerontological nursing science, facilitating adoption of best

practices, fostering leadership, and designing and shaping policy.

Only schools of nursing that have demonstrated a commitment to the field of gerontological nursing and share a vision of optimal health and quality of life for older adults are invited to apply for membership. Members must have both current experience and future potential to build the next generation of gerontological nurses and manifest leadership that transcends their own institution.

"It is exciting that our expertise has been acknowledged internationally by the NHCGNE," said Molzahn. "As one of the leading research-intensive nursing faculties in Canada, we have a strong cohort of researchers interested in aging



Nursing dean Anita Molzahn

and gerontological nursing. With 25 per cent of our faculty members—many of whom are leading

scholars—focusing their research and scholarship primarily on care of older adults, this partnership will facilitate future research activity and faculty development relating to gerontological nursing."

Wendy Duggleby, vice-dean and Nursing Research Chair in Aging and Quality of Life, is excited about this opportunity, for both the faculty and her own research.

"We are now a member of an internationally recognized and experienced organization that has an excellent reputation for building research capacity through their programs and is focused on improving the quality of life for older adults."

"The NHCGNE will open doors to resources, programs and

collaborations that we didn't have access to previously. Our faculty and students will be able to work with other researchers towards the goal of advancing science in gerontological nursing."

Other members of the NHCGNE include Arizona State University, Hartford Institute for Geriatric Nursing at NYU, Oregon Health and Science University, Johns Hopkins University, Penn State University, University of Iowa, University of Arkansas, University of California at San Francisco, University of Maryland, University of Minnesota, University of Oklahoma Health Sciences Center, University of Pennsylvania and University of Utah. ■

Bonds with parents can affect love life later

Bev Betkowski

University of Alberta relationship researcher Matt Johnson has some Valentine's Day advice for anybody who's had rocky relations with their parents while growing up: don't let it spill over into your current romantic partnership.



Matt Johnson

The love between parents and teens—however stormy or peaceful—may influence whether those children are successful in romance, even up to 15 years later, according to a new

U of A study co-written by Johnson, whose work in the U of A's Faculty of Agricultural, Life and Environmental Sciences explores the complexities of the romantic ties that bind.

Being aware of that connection may save a lot of heartache down the road, according to Johnson, who teamed up with U of A psychology professor Nancy Galambos, based in the Faculty of Arts, to review existing data gathered in the United States over 15 years.

Their findings, which appear in the February issue of the *Journal of Marriage and Family*, uncovered a "small but important link between parent-adolescent relationship quality and intimate relationships 15 years later," Johnson said. "The effects can be long-lasting."

Although their analysis showed, perhaps not surprisingly, that good parent-teen relationships resulted in

slightly higher quality of romantic relationships for those grown children years later, it poses a lesson in self-awareness when nurturing an intimate bond with a partner, he added.

"People tend to compartmentalize their relationships; they tend not to see the connection between one kind, such as family relations, and another, like couple unions. But understanding your contribution to the relationship with your parents would be important to recognizing any tendency to replicate behaviour—positive or negative—in an intimate relationship."

That doesn't mean parents should be blamed for what might be wrong in a grown child's relationship, Johnson noted. "It is important to recognize everyone has a role to play in creating a healthy relationship, and each person needs to take responsibility for their contribution to that dynamic."

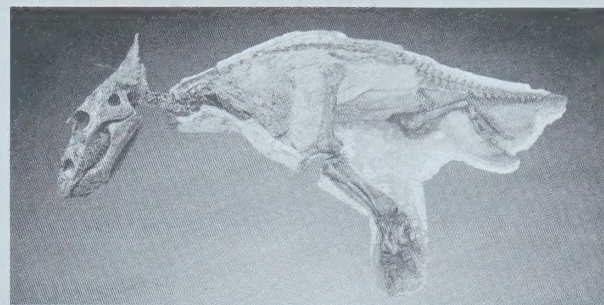
The results were gleaned from survey-based information from 2,970 people who were interviewed at three stages of life from adolescence to young adulthood, spanning ages 12 to 32.

The U of A analysis also revealed a solid link between self-esteem and the quality of the parent-child dynamic.

"Teens who had better relationships with their parents had higher self-esteem as young adults, and that had a lingering effect in their intimate relationships as well," Johnson said.

The findings are the latest in Johnson's research program at the U of A, which focuses on the science of romance.

"Relationship researchers want to build a sound understanding of exactly what determines successful intimate and family relationships. The ultimate goal is to find a way to translate solid science into practical suggestions people can use to have fulfilling relationships and happy lives." ■



Paleontologist Phil Currie's baby Chasmosaurus is on display as part of the DinoStars exhibit being held at the Enterprise Square Galleries.

Dinosaurs and painters make for interesting bedfellows

Geoff McMaster

Two of the University of Alberta's most compelling recent dinosaur discoveries are going on public display, right next to an exhibit of Edmonton painting.

Starting Feb. 6 at Enterprise Square Galleries in downtown Edmonton, DinoStars will feature two specimens that have attracted widespread media attention for revealing the "softer side" of Alberta dinosaurs: the mummified *Edmontosaurus regalis* and the baby *Chasmosaurus belli*. The exhibition runs until March 8.

The baby Chasmosaurus ranks as one of the most exciting finds in the career of Phil Currie, the U of A's star paleontologist and Canada Research Chair in Dinosaur Paleobiology. It's the first time anyone has found a baby of this species intact in 150 years of digs at Dinosaur Provincial Park in Alberta's badlands—or anywhere else, for that matter. Currie estimates the 1.5-metre-long fossilized baby was about three years old when it died, possibly from drowning, 72 million years ago.

"It's a super specimen and I'm very lucky to be the guy that found it," said Currie. "There's no question this is one of the very best ones I've ever found."

The duck-billed *Edmontosaurus* was discovered last year 75 kilometres west of Grande Prairie, Alta. The fossil, a "natural cast" so well preserved it's been described as "mummified," contains skin impressions confirming—for the first time—the existence of a fleshy head crest, or cockscomb.

"It really highlights how many surprises there can be in the fossil record when we get soft tissues preserved," said Victoria Arbour, who worked on the fossil as a doctoral student. "Usually we only get the hard parts, like skeletons or shells, but animals can look really different on the outside as opposed to the skeleton."

Also starting Feb. 6 is *Fresh Paint: A Snapshot of Painting in Edmonton*, which is billed as "challenging preconceptions of

“Nowhere else in Edmonton can you currently see recent dinosaur research and community-curated art exhibitions under one roof.”

Janine Andrews

Edmonton's painting scene." A complementary exhibition, called *Duets: Shared Ideas in Painting*, explores different interpretations of ideas that artists past and present draw upon in their search for self-expression. Both of these exhibits run until April 12.

"Nowhere else in Edmonton can you currently see recent dinosaur research and community-curated art exhibitions under

one roof," said Janine Andrews, executive director of University of Alberta Museums. "With every new set of exhibitions we present at our Enterprise Square Galleries, we aim to inspire and to make the university's current research and collaborations accessible to our local community."

There are 29 collections across campus that comprise the University of Alberta Museums, totalling more than 17 million objects covering subjects from art to zoology. According to Currie, the dinosaur collection alone contains some 15,000 catalogued specimens, with a huge number in the vault yet to be catalogued. ■

A long tradition of Campus Alberta

Indira Samarasekera,
president and vice-chancellor

The University of Alberta is a strong supporter of Campus Alberta, as shown by our history of collaborations with post-secondary institutions across the province.

Long before the province launched Campus Alberta in 2002, the U of A has sought out and created provincial partnerships to capitalize on academic and administrative strengths and to get the most out of limited resources.

The results of these partnerships have been numerous and successful, and they are deserving of wide recognition. To that end,

a new website has been launched that illustrates the depth and breadth of our participation and leadership within the Campus Alberta landscape.

In addition to being part of one of the most flexible and comprehensive transfer programs in North America, the U of A provides leadership in several collaborative research partnerships and has developed systems and processes promoting administrative efficiencies throughout Alberta's post-secondary sector.

We are able to provide this leadership because of the notable efforts of faculty members and administrators across campus and in all disciplines who reach out to colleagues across the province, devise the means and processes of collaboration, and work collectively to advance knowledge—and knowledge transfer—for the benefit of all Albertans.

The Campus Alberta site can be accessed at uofa.ualberta.ca/campus-alberta. ■

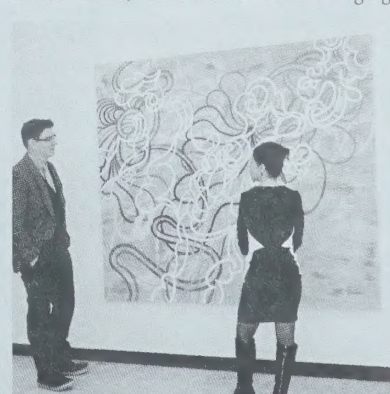
the open door

Are You a Winner?

Congratulations to George Kotovych, who won a copy of Omar Khadr: Oh Canada by U of A professor Janice Williamson as part of Folio's Jan. 24 "Are You a Winner?" contest. Kotovych recognized the setting of the picture as that of the Tory Turtle lecture theatres and the Tory Building. Up for grabs this week is a copy of Gold Medalist: The Annotated Autobiography of Leone McGregor Hellstedt by U of A alumnus Jack Ondrack. To win it, simply identify where the picture was taken and email your answer to folio@ualberta.ca by noon on Monday, Feb. 17, and you will be entered into the draw.



Snapshot



This painting, *Untitled*, is part of *Fresh Paint: A Snapshot of Painting in Edmonton*.

Edmonton's painting scene." A complementary exhibition, called *Duets: Shared Ideas in Painting*, explores different interpretations of ideas that artists past and present draw upon in their search for self-expression. Both of these exhibits run until April 12.

Curing myths and misconceptions about common cold therapies

Bryan Alary

A cure for the common cold continues to elude the medical community, but when it comes to prevention and treatment, simple often is best, says a University of Alberta researcher.

The average Canadian comes down with two to three colds a year, and for children it's much higher, at six per year. A new review in *CMAJ* that looks at what works in preventing and treating colds points to handwashing and a variety of other possible treatments with small benefits to improve symptoms. It also shows that many popular treatments such as over-the-counter cough remedies, vitamin C, garlic, ginseng and echinacea have little to no benefit.

"The best things to prevent a cold that we know of are still the basics—washing your hands and avoiding contact with sick people," said Michael Allan, a professor of family medicine in the Faculty of Medicine & Dentistry.

Allan led the review with Bruce Arroll of the University of Auckland, New Zealand, which included multiple interventions and hundreds of studies. Handwashing and physical precautions such as wearing gloves were singled out as the methods most likely to be effective at reducing the risk of catching a cold or spreading one.

In two Iranian studies, zinc was shown to reduce the number of colds in children aged five to eight, but some potential bias raises questions about the results.

The reliability of research is often low for other preventive measures such as probiotics, gargling, garlic, ginseng, echinacea, homeopathy, or vitamin C or D. Vitamin C has been well studied, but shows little to no benefits, Allan said. Ginseng—found in the popular remedy Cold F/X—has not been shown to consistently reduce the number of colds or days when subjects felt sick.

"The best things to prevent a cold that we know of are still the basics—washing your hands and avoiding contact with sick people."

Mike Allan

"Except for the basics like handwashing or avoiding sick people, we can't really promote the use of anything at this stage. Nothing has very strong research to support it."

When your body does succumb to a cold, one of the most effective treatments isn't found in the drugstore, but in the supermarket: honey. A single nighttime dose of honey (half a teaspoon to two

teaspoons) can have a small beneficial effect on the cough and sleep of children older than one year. (Honey shouldn't be given to kids less than a year old.)



Michael Allan looked at hundreds of studies on what works to prevent and treat the common cold, and found that many popular remedies have little to no benefit.

"It's more effective at reducing cough and improving sleep than cough suppressants are," Allan said. "There's no data for adults, however, just for kids."

Zinc taken orally, either in lozenge or pill form, has shown to reduce the duration of colds by 1.5 days; however, it can taste bad, causes nausea in some people and does not seem to help children. Combinations of antihistamines and decongestants also show some benefit in adults, but they should never be given to children under the age of six and likely have no effect in older children.

When it comes to relieving pain or fever, studies show that both ibuprofen and acetaminophen work, but ibuprofen is more effective in fever control, Allan said.

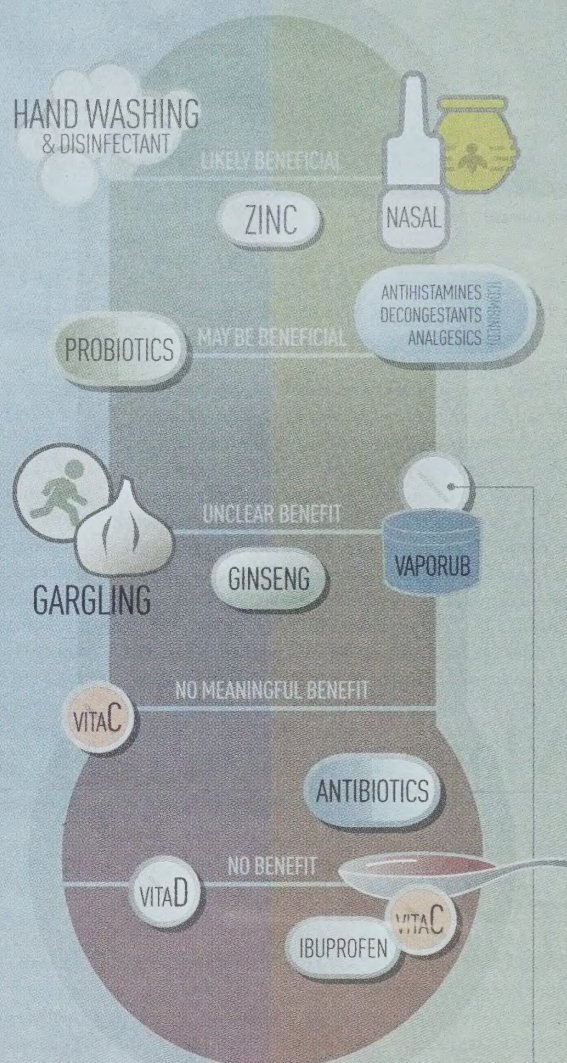
Treatments such as Vicks VapoRub, over-the-counter cough remedies, intranasal ipratropium and antibiotics have not shown to be effective, nor have alternative therapies such as nasal irrigation, humidified air, echinacea, Chinese herbs, ginseng, vitamin C and zinc taken via nasal spray.

Though a cure remains elusive, reviews like this point to therapies that might help ease discomfort and symptoms for adults and children alike. Allan credits the U of A for giving him the flexibility and skills to do the research and then translate that to medical professionals and the public.

"The U of A has allowed me to gain experience as a researcher and as someone who synthesizes evidence," he said. ■

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Where the lions are



A traditional lion dance took place in the Students' Union Building Jan. 31 to ring in Chinese New Year and help celebrate the U of A's 2014 International Week.

U of A video series help students get honest about cheating

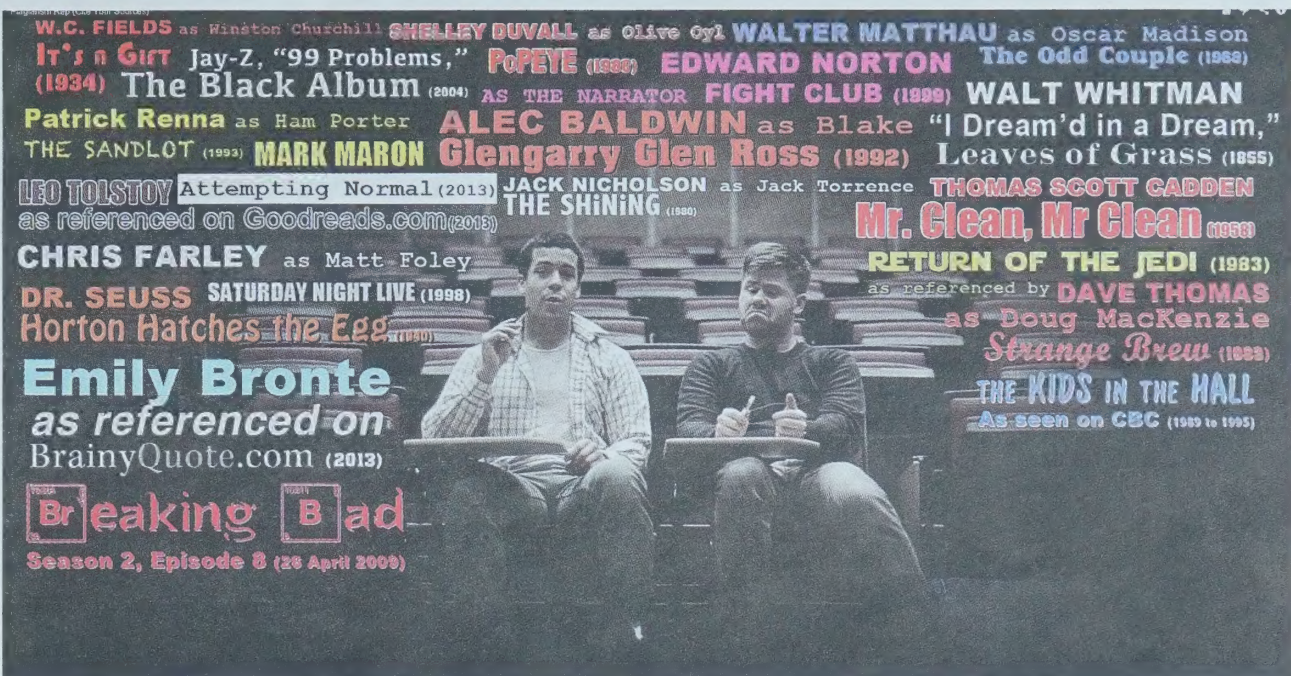
Bryan Alary

Darth Vader, Dr. Seuss and Chris Farley have a frank message for stressed-out students frantic about term papers and exams: cheating is unacceptable! OK, this unlikely pop-culture trio said nothing of the sort. But their words—cited in a new rap video about plagiarism—are part of a larger University of Alberta effort to spark an honest discussion about cheating.

“No student comes here thinking, ‘I’m going to cheat and plagiarize my way through university.’ About 99.9 per cent of the cheating and plagiarism we deal with in our office is from students making poor decisions, often at the last minute,” said Deborah Eerkes, director of the U of A’s Office of Student Judicial Affairs. “It’s usually when they have a paper to hand in and haven’t identified their sources or they didn’t study hard enough and can’t resist taking a peek at the person sitting next to them.”

When students do cheat, consequences can range from a failing grade to a blemished academic record or even expulsion. Eerkes said prevention is preferred over punishment, which is why her office works with students to educate them about what’s acceptable and what is not.

This year, her office teamed up with the Dean of Students and



Edmonton rappers Mitch Holtby (left) and Mike Hamm perform a plagiarism video reminding students to 'Cite Your Sources.'

Townend Films to create a trio of videos highlighting the issue of academic integrity. The first video features Edmonton-based rappers Mitch Holtby and Mike Hamm (a.k.a. Mitchmatic and Mikey Maybe), trading rhymes with lyrics snippets from pop culture, underscoring the need to cite sources.

The two other videos in the series are skits performed by local

actors who spell out what's acceptable and unacceptable when it comes to citing work, and what's cheating.

The creative, often humorous videos are meant to capture student attention and spark discussion about academic integrity on campus. The videos are already being shown in classrooms, at K-12 schools and even among parents.

The series is part of a larger U of A project on academic integrity, which includes collaboration between the Faculty of Science and the Student Success Centre to create an online course on things like how to properly cite and use sources.

Though plagiarism is far from a pressing problem at the U of A, engaging students and ensuring they

know where to turn for help can be difficult, Eerkes said, especially in their first year on campus.

"They're inundated with so much information, we have to find a way to break through and get the information and resources to them. The more innovative and creative we can be about it, the better."

Watch all three videos at <http://ow.ly/t79vy>. ■

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Following in family footsteps the right move for cancer researcher

Bev Betkowski

Since the age of 10, Dylan Breitkreutz has heard his granddad urge him to study medicine. As it turns out, he listened—and it was wise advice indeed.

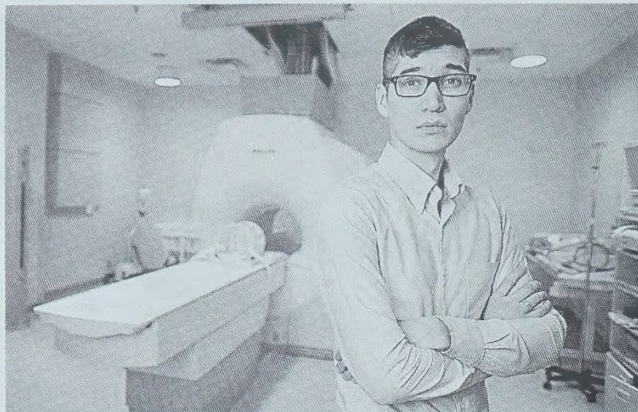
The University of Alberta graduate student, now 26, is the 2013 winner of the NSERC \$10,000 André Hamer Postgraduate Prize, for his master's thesis work on finding better tools to gauge effectiveness of cancer treatments.

The prize is given to promising young scientists in Canada based on academic excellence, research potential and interpersonal skills.

Based in the medical physics division of the Department of Oncology, Breitkreutz is proud to uphold a family tradition of attending the U of A's Augustana Campus in Camrose, along with his sister. His parents were there years ago as Camrose Lutheran College students.

In fact, Breitkreutz credits his growth as a young researcher to the years he spent at Augustana earning an undergraduate degree in math, physics and philosophy.

"If it weren't for my time at Augustana, I don't think I would be here now. They offered a smaller physics and math program, and I got to know my teachers pretty well. I was spurred on to find research projects."



Dylan Breitkreutz

Intrigued by the ideas of motion and rates of change, Breitkreutz sees physics in action all around him. "It applies to things we see every day; it's a framework of ideas we can use to interpret the world around us." As an undergrad at Augustana, he spent summers in the lab, writing a paper on computational mathematics that was published in 2011 and a second paper on the entropy of cell signalling pathways that was published in the high-profile journal PNAS in 2012. He was the lead author on both.

Today, Breitkreutz is in the second year of his master's work at the U of A, focused on employing an imaging protocol in magnetic resonance spectroscopy as a way to sharpen early

evaluation of cancer treatments, breast cancer in particular.

Breitkreutz's research homes in on the spine, a common area for breast cancer to spread. Chronic back pain, weakness and even paralysis can result.

Fat levels in spinal bone marrow appear to decrease when a tumour takes hold, and increase when a patient is responding well to treatment.

His work concentrates on ways to improve measurement of these fat levels, in the hopes of showing how well (or not) radiation therapy is working for a cancer patient.

"We can't always be sure of how well a therapy is working, so if we can find a way to get a better handle on that, it has the potential to help make treatment more effective for a patient."

Once he earns his master's degree in medical physics, Breitkreutz, deeply committed to his field, plans to move on to a PhD.

"I want to do something with my life that makes a human

contribution. Medical physics can be a nice mix of clinical, academic and research work, and has a worthwhile, tangible outcome. It has the potential to directly affect people's lives."

"If it weren't for my time at Augustana, I don't think I would be here now."

Dylan Breitkreutz

Breitkreutz, who is proud to be recognized by NSERC for his work, joins other young U of A researchers who have won the prize in past years, including Rhodes Scholar Megan Engel in 2012, Kenneth Chau in 2005 and Selena Smith in 2004. ■

Aging research behind new law to help caregivers

Bev Betkowski

Feb. 1, the day the provincial government unveiled new legislation that will help Albertans juggle jobs and caregiving duties, was a good day for University of Alberta researcher Janet Fast and her colleagues.

The Compassionate Care Leave Act amends the Employment Standards Act to provide Albertans with eight weeks of unpaid work leave to care for a gravely ill loved one, without risk of losing their jobs. The legislation became reality thanks to the dedication of Edmonton-South West MLA Matt Jeneroux, combined with years of research provided by U of A professor Janet Fast and a team of experts on aging.

"The legislation will help many Alberta families who are caught in the crunch of caring for ill or elderly family and friends, while also trying to hold down jobs. It's a rare thing to see evidence-based policy-making in action and be able to say, 'Hey, our research helped make that happen,'" said Fast, a professor in the Department of Human Ecology who researches the wide-ranging implications of an aging society.

The Compassionate Care Leave bill was championed by Jeneroux, who tapped a storehouse of research built over 15 years by Fast and the U of A's Research on Aging, Policies and Practice team, to support the case for his private member's bill.

"Mr. Jeneroux made sure he had the power of evidence behind his arguments. As University of Alberta researchers, it was exciting for us to share our knowledge, to be a partner in shaping policies that help people," Fast said.

The bill was passed in 2012 and received royal assent in June 2013 before coming into force Feb. 1.

The information and advice provided by Fast, who is based in the U of A's Faculty of Agricultural, Life and Environmental Sciences, played a key role in winning government and workplace support for the bill, Jeneroux said.

"It was great that Dr. Fast had the evidence that I needed and was willing to advise me on the key messages. It was easy to extract the 'sound bites' that helped me win the support of my legislature colleagues and the business community. Her help was instrumental in getting the bill passed."

Fast and her team of experts on aging and caregiving trends—including fellow professor Norah Keating, RAPP research manager Jacquie Eales and numerous undergraduate and graduate students—drew on years of painstaking work, time spent combing through national survey data, publishing numerous studies and fact sheets, advising federal

and provincial policy-makers as well as employers, and raising awareness about an issue that will, sooner or later, affect most North Americans.

Meeting with Jeneroux, Fast shared her thoughts on why caregivers need access to compassionate leave, how the law varies across provincial jurisdictions and how it is working in general. She also provided information on a working model in the United Kingdom, to help build a business case for the bill.



Janet Fast

The MLA's office was also provided with U of A research on the magnitude of the issue, which employees are most affected, and implications for employers.

U of A analyses of national statistics show, among other facts, that there are more than 2.3 million employed family or friend caregivers in Canada. More than 520,000 employed caregivers collectively missed 1.5 million workdays per month because of caregiving responsibilities. As well, more than 313,000 workers reduced their hours to provide care, collectively reducing their time at work by 2.2 million hours per week.

"The need to deal with the issue in the workplace is acute," Fast said. She and the RAPP team continue to create research partnerships and projects that will build awareness and policy to deal with the caregiving challenges—and opportunities—that come with a rapidly aging demographic. Ongoing research will help them demonstrate to employers why it is important and profitable to pay attention to the needs of employees who are also caregivers.

At Jeneroux's invitation, Fast also took some third-year human ecology students to see the Alberta legislature in action.

"It gave them an opportunity to see how research becomes policy, and how their work as scholars can have real impact," Fast said. ■

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DiscoverE's Girls Coding Club receives second Google RISE award

Richard Cairney

The Faculty of Engineering's DiscoverE outreach program has won a prestigious Google RISE Award for the second year running, and plans to use the prize money to grow its initiative to teach computer programming to girls.

DiscoverE is the only program in Canada to have won two RISE awards; last year it became the first Canadian group ever to win the honour.

Now in its fifth year, the RISE Awards program supports organizations that engage girls and underrepresented students in extracurricular computer science programs.

This year's award and \$30,000 in prize money is directed at DiscoverE's innovative Girls Coding Club, the only program in Canada teaching computer programming to girls from grades 3 to 9.

"In DiscoverE we move from inspiring kids in science, technology, engineering and math to empowering them."

Mohamed El-Daly

"In DiscoverE we move from inspiring kids in science, technology, engineering and math to empowering them, to move them from consuming technology to producing technology," said Mohamed El-Daly, the Faculty of Engineering's outreach co-ordinator. "We don't want them to sit around and wait for someone to write software for them; we want to



The Faculty of Engineering's DiscoverE team won its second Google RISE award.

give them the tools to address their problems or the problems of the community."

The Girls Coding Club started last fall as an offshoot of popular coding programs offered to girls in the DiscoverE summer camps. The 40 spots filled quickly, with a waiting list of 20 applicants. The 2014 session started last week.

Girls in the club are split into two groups, from grades 3 to 5 and grades 6 to 9. Both groups are taught Scratch and Python, a common computer language, and learn about concepts like sorting and sequencing, and how computers work. Mentors from the IT industry visit the club to talk about what they can accomplish with coding skills and career possibilities.

In the current session, girls are looking at problems they have around them to see whether they can write the code to make things better.

"All of the spots filled up quickly, and feedback from parents and the girls was overwhelmingly positive," said El-Daly.

Girls Coding Club co-ordinator Alix Krahn, who is completing her computer engineering degree this spring, says it's important that girls get specific encouragement in the high-tech world.

"I had an affinity for math and finding patterns, and that's what led me to engineering. But no one ever suggested I look into computers or coding," she said. "In the coding course in my first year of engineering, I realized, 'Yeah—I'm good at this.' Girls aren't encouraged to look into this area but the boys in my class had been doing this since they were 12 or 13."

She says the young programmers began to flourish in the course. Some of them programmed fairly elaborate games; others took on personal coding projects in their free time at home.

Krahn hopes to see the coding club members begin to share their knowledge with friends.

One idea DiscoverE is investigating is to have girls from the coding club set up Girls Coding Club branches at their own schools to teach their peers and learn together.

"I think they know best how each other thinks, so they can explain the concepts to their peers better than I can. I might use words or concepts they don't know or things that don't relate to them," she said.

El-Daly says peer-to-peer teaching would be a real success for the program.

"We believe that kids are better able to reach their peers than we are," he said. "They can take ownership of their education, and we will be there to support them and give them direction." ■

Industrial design students design pedal-powered lamp for families living without electricity

Bryan Alary

A team of University of Alberta industrial design students have a bright idea to help the 1.6 billion people worldwide living without electricity to find a cheap light source and reduce waste.

Students Russell Davidson, Jiayi Li, Fren Mah, Mikenna Tansley and Kapil Vachhar turned to recycled e-waste, bicycles and readily available motor technology to design MiON, a pedal-powered lamp that could provide a light source for people without electricity. Their design efforts were part of an advanced product design class project—one that recently earned

gold in the product category of the International Sustainable Electronics Competition.

"Electronic waste is a fairly current concern, and I thought it would be an interesting challenge for the students to research various aspects of the problem associated with this kind of waste and combine what they're learning in product design," said instructor Greig Rasmussen, who restructured his industrial design class this year to give students experience with more practical problems and a taste of the competitive atmosphere they can expect in the workforce.

MiON is a lighting system that attaches to a bicycle, with a small dynamo motor that generates and stores electricity using pedal power.

Designed to be built from recycled plastics and electronics, MiON can provide ambient or fixed lighting in homes without power that would otherwise rely on costly kerosene lamps.

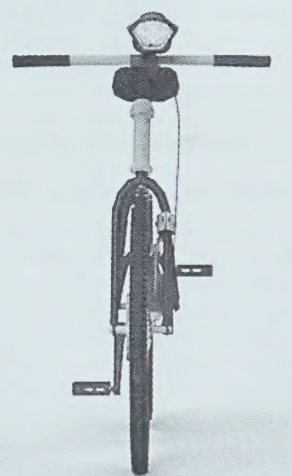
MiON not only takes aim at an ecological problem that was part of the class project, but also addresses a social issue in the developing world—one that resonated with many of the teammates, said Mah, who came up with the idea of blending the two goals.

"I looked at lighting situations in some cultures; some people don't have sufficient lighting at night to do their studies or homework, and I thought if we could produce a product, it could help alleviate the situation," he said.

"Since bikes are a main form of transportation, we liked the idea of using something where we could allow people to charge it throughout the day while riding and use it at night. It seemed like a plausible solution," added Tansley.

The students created a video animation that introduces MiON and illustrates the scope of the problem, with some of the narration told in Hindi from the perspective of a boy living in India. The quality of storytelling and blending of goals—reducing waste and social good—was impressive and a credit to the students, said Rasmussen.

Watch the video at <http://vimeo.com/78419242>. ■



MiON is a bike-mounted pedal-powered lamp that provides light.

Concrete toboggan team blazes to first place at nationals

Richard Cairney

The Faculty of Engineering's Great Northern Concrete Toboggan Race team has returned from the national championships with prizes and accolades falling out of their pockets, after competing against 21 teams of engineering students from across the country.

"At the closing ceremonies, our team made it up to the awards stage a phenomenal 11 times," said team co-captain Ryan Cusveller, a fourth-year civil engineering student. "We won by an absolute landslide and won every design category."

Concrete toboggan races began 40 years ago when civil engineering students at the U of A competed against their counterparts from Calgary. Today, the event draws student teams from virtually every engineering school in Canada to an annual competition.

Designed to meet strict safety requirements, the sleds must weigh no more than 300 pounds. Every surface that comes in contact with the snow, except the brakes, must be made of concrete.

After making it through technical inspections at last week's competition, held in

London, Ont., the U of A team went head to head against other schools in downhill competitions.

In the slalom event, in which teams manoeuvre through three "gates," the team's sled picked up speed quickly and was clocked at a speed of 42 km/h, tied for first place.



The University of Alberta's Great Northern Concrete Toboggan Race team, seen here after a test run of their sled, won first place overall at the national championships.

As the day wore on, wet heavy snow began to fall, bringing speeds down. But there was a silver lining behind the clouds that brought in the heavy flakes. Teams are judged on speed and braking distance, and the snow proved beneficial.

"The added snow actually helped with our braking system, as the fresh snow helped the large plow (the sled's braking mechanism) dig into the snow better."

A technical foul—a sled pusher running beyond the permitted push zone—disqualified the team in its final downhill race, "but our team was very happy with the way we performed," Cusveller said.

At the awards ceremony, the U of A team finished first in nine categories, including Best Overall Team and the sustainability award, along with a single second-place award and three third-place awards.

Cusveller says the U of A team shone in every way, from designing and building a superb sled to helping and cheering on other teams other teams at the national competition.

"In my opinion, these team members could not have been better ambassadors for the University of Alberta," he said.

"I'm humbled to be able to say these team members are my friends and classmates," he added. "I believe our success at this competition directly correlates to the level of teaching and education that the University of Alberta Faculty of Engineering offers its students." ■

news [shorts]

folio presents a sample of some of the stories that recently appeared on the [ualberta.ca news](http://ualberta.ca/news) page. To read more, go to www.news.ualberta.ca.

Alberta MBA ranks in top 25 in North America

The Alberta School of Business has been ranked by employers as one of the 25 best MBA schools in North America. The U of A business school was ranked 22nd in the QS Top MBA Global 200 Business Schools Report 2013/2014.

The QS report originated in the early 1990s as an alternative to business school rankings. The QS rankings come from a survey of 4,318 international employers, who are asked a series of questions regarding recruitment trends, salary and compensation trends, and ratings by region and specialization.

"Our continuing investment in careers and our increasing global network is really paying off," said Joseph Doucet, dean of the U of A business school.

The top three schools in the rankings were Harvard, Stanford and Wharton. The other Canadian business schools that made the top 25 are Rotman, Schulich, Ivey, McGill, HEC Montreal, Queen's, and UBC's Sauder.

Golden Bears curlers win the West

The Golden Bears men's curling team won their third straight Western Canadian championship with an 8-6 victory over the University of Manitoba Feb. 2 at the Saville Community Sports Centre.

The Bears rink of Brendan Bottcher (skip), Landon Bucholz (lead), Brad Thiessen (second), Evan Asmussen (third) and Thomas Scoffin (alternate) finished with a perfect 5-0 record, and will now head to the CIS/CCA national championship coming up March 19-23 at the University of Regina.

Beginning Feb. 5 in Lacombe, Bottcher, along with Thiessen, Mick Lizmore and Karrick Martin, also began competition in the Alberta men's provincial playoffs.

The U of A women's team, meanwhile, finished second at the CIS/CCA Western Canadian curling championship, closing the tournament with a 4-2 record, but qualified for the national championship because the top two women's teams, along with host Regina, advance to the national championship in March. Skipped by Kelsey Rocque and featuring Keely Brown (third), front ends Alison Kotalyk and Taylor McDonald, and alternate Claire Tully, entered the Western championship fresh off winning the Canadian junior women's championship in Nova Scotia Jan. 25.

Before they can compete for the CIS crown, they'll fly to Switzerland, where they'll vie for the World Junior title in a tournament starting Feb. 26.

Selection committee needed for Killam search

The General Faculties Council is calling for three members to help form the Advisory Selection Committee for the Killam Memorial Chair.

GFC welcomes all self-expressions of interest/nominations from faculty members to serve on this Advisory Selection Committee.

Chairing the Advisory Selection Committee is Lorne Babiuk, vice-president (research). Two ex-officio members are the provost and vice-president (academic) or designate, and the dean of the Faculty of Graduate Studies and Research or designate.

For more information, contact Ann Hodgson, co-ordinator to the GFC Nominating Committee, at 780-492-1938 or ann.hodgson@ualberta.ca. For general inquiries, please visit governance.ualberta.ca.

CORRECTION: In the Jan. 24 issue of Folio it was incorrectly reported that a selection committee was being formed to begin the search for a new dean of the Faculty of Extension. In fact, the call for nominations was for members of a Review Committee, Dean (Faculty of Extension).

Jordan Baker breaks Golden Bears basketball record

Jordan Baker has become the all-time conference scoring leader in Golden Bears basketball. The fifth-year student-athlete accomplished the feat Jan. 25 when he drained a free-throw attempt at 6:35 of the first quarter against the Calgary Dinos at home in the Saville Community Sports Centre. Baker needed five points to break the record of 1,561 points set in 1996 by Greg DeVries.

Immediately following the bucket, the game ball was collected by Jordan's father Doug, who was a three-time Bears MVP, as well as alumni Stephen Parker (2002 CIS MVP), Rick Stanley and DeVries.

The scoring record is the 10th Golden Bears record that Baker has broken in his five seasons at the U of A. He also owns the career conference records for rebounding, steals, assists, field goals made, field goals attempted, free throws attempted, three-point shots attempted, minutes played and games played.

U of A Press names scholar-in-residence

The University of Alberta Press is pleased to announce that Colleen Skidmore will join the UAP as scholar-in-residence, effective Feb. 1.

Skidmore, art history professor, former vice-provost and associate vice-president (academic) and author of *This Wild Spirit: Women in the Rocky Mountains of Canada* (published by UAP in 2006) is a friend and longtime UAP supporter who understands the critical role university presses play in the academy.

In the provost's office, Skidmore had been responsible for overseeing the university's academic budget, enrolment, planning, academic strategic initiatives and quality assurance, and liaising with the provincial government on a variety of academic issues.

Medicine and dentistry welcomes first deaf resident

Amy Hewko

When Jessica Dunkley was 10 years old, her aunt gave her a life-altering gift: a plastic anatomy doll. She spent hours taking it apart and putting it back together, fascinated by the complexity of the human body. As she reassembled the doll, she decided that she would one day wear a white jacket, a dream that she called a "fantasy" for much of her life.



Jessica Dunkley

In 2010, fantasy met reality when Dunkley graduated from medical school as one of the University of Ottawa's Extraordinary Women, which celebrates female trailblazers at that institution. The moment she accepted her degree, she became the first deaf Métis doctor in Canada. Only residency stood between her reality and the fantasy that inspired her as a child.

But the road to residency has been a long one.

"It's relatively new in Canada to have residents who use sign language interpreters in the hospitals, as there are few deaf people who obtain higher education compared with the general public," Dunkley said via email.

As one of Canada's first deaf physicians, Dunkley takes a special interest in connecting the deaf community with the medical community. She hosts American Sign Language medical terminology workshops for interpreters, especially those who work in medical settings. She also hosts health workshops for the deaf community. Before her medical education, she also volunteered as a physiotherapist for international events including the Deaflympics and the World Ice Hockey Championships for the Deaf.

She also takes care to connect with her Métis roots. She has worked with Aboriginal groups across the country and was inducted into the National Aboriginal Health Organization's Role Model Program in 2007.

Dunkley is fluent in ASL and Quebec Sign Language, and can speak English, but interpreters play a key role in her ability to participate in class. As a medical student at the University of Ottawa, she was assigned an ASL interpreter. The University of British Columbia had previously provided her with an interpreter as she completed a BSc in physical therapy. As a dermatology resident at UBC, however, she was considered an employee of Vancouver Coastal Health and could not access UBC student support services.

Dunkley encountered this situation often. In most provinces, residents are considered employees of the local health authority and do not have access to student support services. Then she met Melanie Lewis, associate dean of learner affairs and head of learner advocacy and wellness in the Faculty of Medicine & Dentistry.

"She believed in my credibility," Dunkley said of Lewis. "I met all the requirements to get my MD just like everyone else, and she didn't question my ability just because I have a hearing loss."

As a resident, Dunkley is considered both a U of A student and an employee of Alberta Health Services, so the responsibility to provide her with an interpreter is shared. But neither organization had ever accommodated a deaf physician, and the requirements—including how to maintain doctor-patient confidentiality and when

interpretation would be needed—were unknown.

To upturn the status quo, Lewis and Dunkley had to introduce both parties to a new vision of clinical excellence. The first step was to prove Dunkley's clinical competence.

"A person's success is influenced by everything around them, and the University of Alberta has created an environment that makes learning much more enjoyable and meaningful."

Jessica Dunkley

"When she was interviewed, there were several people who didn't recognize that she was deaf," Lewis said, noting that Dunkley wears hearing aids that allow her communicate without an interpreter in quiet settings. "The problem in the clinical and teaching settings is that there's background noise and competing voices. The issue for me is that she could lose out on a lot of educational opportunities and conversation unless she had interpretation."

The AHS and U of A medical boards were impressed with what they saw. Dunkley began the Public Health and Preventive Medicine residency program in January.

"A person's success is influenced by everything around them, and the University of Alberta has created an environment that makes learning much more enjoyable and meaningful," she said. ■

classified ads

ACCOMMODATIONS FOR RENT

CONDO FOR RENT. March 1st, Saskatchewan Dr, U of A. Very bright, clean, 2 bedroom, 2 bath, 2 balcony, fireplace, river plus SW view, all appliances, underground parking. \$1400/month. 780-438-6410 or ppirquet@telus.net.

ACCOMMODATIONS WANTED

HOUSE/PET SITTER. 2014 - 2015 Faculty and excellent Border Collie seeking accommodation during home rebuild. Shannon. shansong@shaw.ca.

laurels

Law professor **Bruce Ziff** won the 2013 Honourable Tevie H. Miller Teaching Excellence Award, and **Naomi Schmol** won the 2013 Pringle/Royal Sessional Teaching Excellence Award.

During the 2012-13 academic year, for which he was recognized, Ziff taught courses in property, land titles, and interviewing and counselling. Schmol was recognized for her work teaching legal research and writing to first-year students.

"Bruce and Naomi are very deserving winners," Dean Philip Bryden stated. "But without detracting from their accomplishments, I would like to say that it is a pleasure, albeit a challenge, to have so many dedicated and accomplished law teachers from whom to choose."

With the support of the Alumni and Friends of the Faculty of Law Association, the Faculty of Law established the Tevie Miller Award in 1998 to honour the late Justice Tevie Miller, who served as U of A chancellor from 1986 to 1990, and to recognize excellence in teaching by a full time faculty member. The Sessional Teaching Excellence Award was established in 2005 to recognize teaching excellence by a sessional lecturer in the faculty.

Law professor **Annalise Acorn** was appointed expert in law for the Awards to Scholarly Publications Program of the Federation for the Humanities and Social Sciences. The program assists publication of works of advanced scholarship contributing to knowledge in the humanities and social sciences. The program is governed by two committees of peers responsible for policy development and manuscript review.

Catalogue of folk giant Pete Seeger lies at core of folkwaysAlive!

Geoff McMaster

Jonathan Kertzer never actually met Pete Seeger, but the director of the University of Alberta's folkwaysAlive! has been one step removed from the giant of 20th-century folk music for much of his life.

“He was great because he was inclusive.”

Jonathan Kertzer

“He was great because he was inclusive,” says Kertzer of the man who died this week at 94 after hammering out love, justice and freedom on his guitar for more than seven decades.

“He drew everyone in and got everyone involved in the performance. There's no wall between performer and audience. Especially as he got older and started losing his voice, he'd ask others to join in.”

Kertzer recalls seeing Seeger at Carnegie Hall in 1998, headlining the 50th anniversary concert for Folkways Records, which is now housed in both the Smithsonian Institution in Washington, D.C., and at the U of A as folkwaysAlive! Because Kertzer worked with the Smithsonian at the time, he was invited to the after-party backstage,

but says he can't remember whether he actually said anything to the man of the hour.

What he does remember is eating lunch with Seeger's father Charles, an ethnomusicologist who taught at UCLA, years before when Kertzer was an undergraduate music student. Kertzer also considers Seeger's nephew Tony, with whom he worked at Smithsonian before coming to the U of A, a close friend.

Seeger influenced almost everyone in the folk world from the 1940s on, including Bob Dylan; the Weavers; the Kingston Trio; Peter, Paul and Mary; and an entire generation of musicians in the 1960s folk revival. He was also one of three core musicians—along with Lead Belly and Woody Guthrie—on the Folkways Records label, founded by Moe Asch in 1948.



“And Seeger worked with both those guys,” says Kertzer. “He played with Guthrie in the Almanac Singers.”

Asch recorded more than 50 albums with Seeger, many of them during the period when Seeger was blacklisted for alleged communist sympathies by the House Un-American Activities Committee.

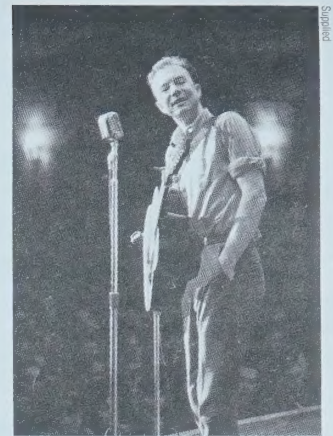
“He was a favourite of Moe, and Moe couldn't care less about the blacklist,” says Kertzer. “Seeger really didn't like the pop music spotlight—he was much more interested in music as a social movement and non-commercial world.” Throughout his career, much of Seeger's music was played to rally support for causes such as the civil rights movement, social justice and protection of the environment.

In addition to discovering many new singers and songwriters, Seeger also helped bring international music into the Folkways fold, says Kertzer. He was, for instance, one of the first to record songs like *Guantanamera* from Cuba and *Wimoweh* from South Africa.

The twist of fate that brought all of this to Edmonton came much later when Asch later spent time in the '70s and '80s visiting his son Michael, an anthropologist at the U of A. Asch fell in love with the city's cultural life—including CKUA radio (which started on campus) and the Edmonton Folk Festival—and decided his collection should reside here as well as at the Smithsonian Institution.

So in 1985 he donated an entire copy of the more than 2,000 titles in the Moses and Frances Asch Collection of Folkways Records, and in 2003 folkwaysAlive! was born, carrying on Asch's mission of keeping home-grown, community-based music alive through both scholarship and performance.

On Feb. 20, for example, folkwaysAlive! is sponsoring a blues showcase, along with a concert featuring contemporary female folk artists at Sherwood Park's Festival Place called the



(Above and lower left) Pete Seeger

Women of Folkways, as part of its Winter Roots Festival. A tribute to Seeger will likely happen that evening, says Kertzer.

This festival, and the many other events sponsored by folkwaysAlive! throughout the year, are reminders that although Seeger may have left us, the spirit of folk music is alive and well.

Despite its virtual absence in the mainstream, says Kertzer, “I think folk music is constantly rediscovered. There's a whole generation of young musicians now who are very much influenced by Seeger and his legacy, who care about non-commercial music that comes from community and has deeper meaning in its lyrics—music that's trying to say something.” ■

talks & events

Talks & Events listings do not accept submissions via fax, mail, email or phone. Please enter events you'd like to appear in folio and at www.news.ualberta.ca/events. A more comprehensive list of events is available online at www.events.ualberta.ca. Deadline: noon one week prior to publication. Entries will be edited for style and length.

UNTIL MARCH 9

Who Needs Feminism? Who Needs Feminism is an exhibition of photographs featuring students at the University of Alberta answering, in their own words, the question: why do you need feminism? Rutherford Galleria.

UNTIL FEB. 14

Future Bodies: Human Health Horizons. What does health mean to us now and how might this change in the future? What solutions are on the horizon? Join us for a creative look at the future of health and wellness as conceived by the next generation of doctors, dentists, and healthcare providers. Extended exhibition for International Week. Rutherford Library South Foyer.

FEB. 8

Law Show presents: “Alawddin.” The Law Show Committee cordially invites you to their 19th annual production, Alawddin, a twist on the beloved Disney Classic. This year marks the final year of their three-year commitment to the Zebra Centre. The Law Show Committee is pleased to contribute to this worthy cause. 6:30–10 p.m. Myer Horowitz Theatre

FEB. 12

CTL Catalysts: A Conversation Series on Teaching. “Holistic and Exhilarated Learning: Strategies and Philosophies for Transformative Learning.” This is a monthly series of conversations with U of A teaching award winners on their trials and triumphs in teaching. Led by the award winners themselves, the series is meant to provide a forum for celebration, conversation and reflection about teaching practices. In this session, participants will explore two perspectives on educating and inspiring the whole student. Coming from the viewpoint of natural science, chemistry professor Glen Loppnow will show how challenge, opportunities and process can transform the learning environment for students, and the teachers themselves. Based on his experience as a social scientist and physical educator, physical education and recreation professor Billy Streat will present the three components of “exhilarated learning”—human connection, whole body engagement, and the interplay of content and context. Register at www.ctl.ualberta.ca. Noon–1:30 p.m. TELUS Centre.

Educated Luncheon: Feeding the world with Canadian beef? This talk, given by Graham Plastow, researcher in the Department of Agricultural, Food & Nutritional Science, will focus on how genomics can ensure that the nutritional demands of Canada are secured and play a pivotal role in ensuring the rest of the world is fed as well. Noon. Enterprise Square

Impact of Mental Health on Student Learning. Student mental health is critically related to student learning and success. In this workshop, Robin Everall, associate dean of students, will disseminate what she has learned about the impact of mental health on student learning during her Provost Fellowship (2012) on this topic. This will be an interactive workshop. The target audience for this session is instructors as well as faculty and staff who are in administrative positions interfacing with students. TELUS Centre. 2:30–3:30 p.m. To register go to utsregistration.ualberta.ca.

Mainstage: Brass Fireworks. Brass Fireworks brings a brilliant and banging display of musicianship up close and personal, featuring players Robin Doyon (trumpet), Sylvain Beyries (trumpet), Allene Hackleman (horn) Alden Lowrey (trombone) and John McPherson (tuba). The dynamic program of 20th century works includes Vitrail by the “Mozart of Cinema,” Georges Delerue, Colchester Fantasy by American composer Eric Ewazen, and Quintet by Russian composer Victor Ewald. Tickets \$20 at yeglive.ca/ualbertamusic. 8–10 p.m. Convocation Hall

FEB. 13

Summative Assessment. Participants in this CTL workshop will be introduced to the principles of effective assessment of student learning both from a formative and will be offered an opportunity to explore different ways of providing feedback throughout the learning process and think about possible uses of an ePortfolio to help students document their learning. Register at www.ctl.ualberta.ca. 10–11:30 a.m. TELUS Centre

FEB. 15

39th Annual Johann Strauss Ball. This Viennese ball is in support of the Johann Strauss Foundation's goal of encouraging and supporting young musicians from Alberta, who wish to continue

and further their advanced studies of music in the cultural environment of Austria. Register at JohannStrauss.ca. Starts at 5:30 p.m. Chateau Lacombe.

FEB. 17 – MAR. 29

And there's the humor of it: Shakespeare and the four humors. This travelling exhibit from the National Library of Medicine in the U.S. examines the intersection of medical theory and literature. These four bodily humors—blood, yellow bile, black bile and phlegm—were understood by Shakespeare, and generations before him, to define people's physical and mental health, and to determine individual's personality as well. See this exhibition to learn more about the language of the four humors and their influence in Shakespeare's plays. Walter C. Mackenzie Health Sciences Centre.

FEB. 20

Introduction to ePortfolios. This beginner session will provide a general overview of ePortfolio use in higher education. ePortfolio is a central location to house and share work, and share your experience with others. Register at www.ctl.ualberta.ca. Noon–1:30 p.m. TELUS Centre.

FEB. 26

Pink T-Shirt Day. The campus community will celebrate Pink T-Shirt Day as the culmination of efforts to raise awareness about bullying and harassment on campus. This event is part of Bullying Prevention Month at the U of A. It is an opportunity for students, staff and faculty members to learn more about both the impacts and resources for dealing with bullying on campus. Purchase your own exclusive U of A Pink T-shirt Day from the Bookstore from Feb. 3–26. Then wear your pink T-shirt Feb. 26 and head to TELUS Centre at noon to take a group photo.

FEB. 26–MARCH 8

Celebrate U of A Pride Week. See more at PrideWeek.ualberta.ca/



✕
BACKYARD
Tradition
 ON CAMPUS



Hockey in its purest form returned to campus as Recreation Services welcomed 30 teams to the third annual U of A Pond Hockey Tournament Jan. 31–Feb. 2. The teams, made up of students, staff and alumni, braved frigid temperatures over the weekend to battle for three-on-three bragging rights.

the
BackPage

PHOTOS | RAY AU